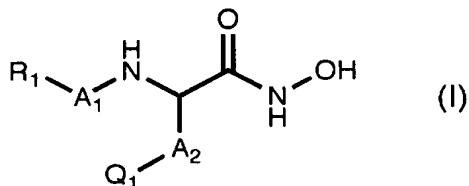


CLAIMS

1. A compound of the following formula (I) or a pharmaceutically acceptable salt thereof:

[Formula 11]



wherein R_1 represents a hydrogen atom, an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group;

A_1 and A_2 each independently represent a single bond or an alkylene group having 1 to 6 carbon atoms;

Q_1 represents $-\text{Y}_1-\text{A}_3-\text{R}_2$, an aromatic ring compound group Q_2 , a heteroaromatic ring compound group Q_3 , or a saturated cyclic compound group Q_4 ;

Y_1 represents $-\text{O}-$, $-\text{S}-$, $-\text{NR}_3-$, $-\text{CONR}_3-$, $-\text{NR}_3\text{CO}-$, $-\text{NR}_3\text{COO}-$, $-\text{NR}_3\text{CONR}_4-$, $-\text{NR}_3\text{SO}_2-$, or $-\text{NR}_3\text{SO}_2\text{NR}_4-$;

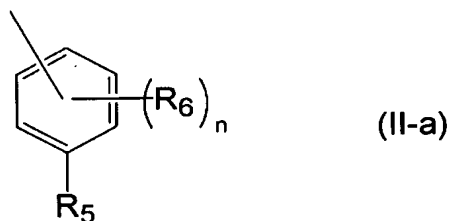
A_3 represents a single bond or an alkylene group having 1 to 6 carbon atoms;

R_2 represents an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group;

R_3 and R_4 each independently represent a hydrogen atom, an alkyl group, an alkenyl group, an aryl group, a heteroaryl group, a saturated heterocyclic group, or a group selected from the group consisting of an aryl or heteroaryl group and an alkylene group having 1 to 3 carbon atoms; R_2 and R_3 optionally bond together to form a ring;

Q_2 is a group of the following formula (II-a):

[Formula 12]



wherein R_5 represents a nitro group, a cyano group, or $-\text{Y}_2-\text{A}_3-\text{R}_2$;

n represents an integer of 0 to 4;

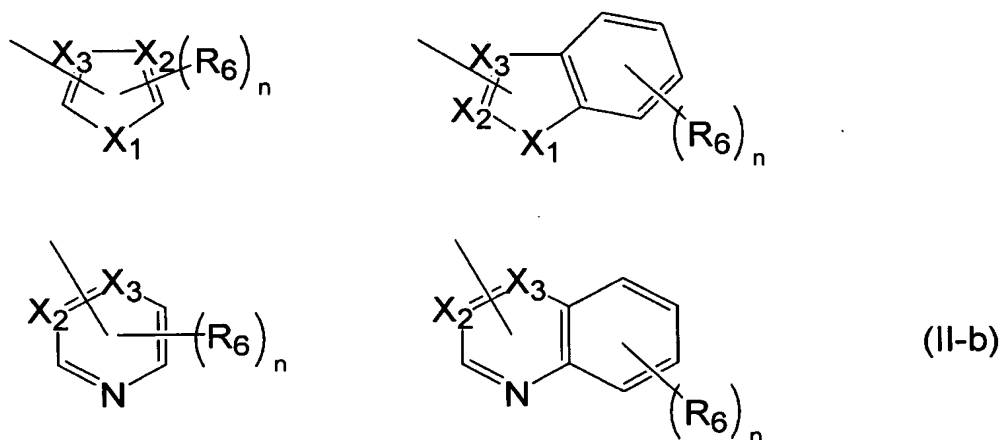
Y_2 represents a single bond, -O-, -S-, -NR₃-, -CONR₃-, -NR₃CO-, -NR₃COO-, -NR₃CONR₄-, -NR₃SO₂-, or -NR₃SO₂NR₄-;

R_6 s are each independently optionally substituted at any carbon atom on the ring, each independently represent a halogen atom, an alkyl group, a nitro group, a cyano group, -OR₇, -COOR₇, or -CONR₇R₈, and optionally form a ring; and

R_7 and R_8 each independently represent an alkyl group, an alkenyl group, an aryl group, a heteroaryl group, a saturated heterocyclic group, or a group selected from the group consisting of an aryl or heteroaryl group and an alkylene group having 1 to 3 carbon atoms;

Q_3 represents a group selected from groups of the following formula (II-b):

[Formula 13]



wherein X_1 represents -O- or -N(-Y₃-A₃-R₂)-; X_2 and X_3 each represent N or CH; Y_3 represents a single bond -CO- or -SO₂-; and

Q_4 represents a 3- to 10-membered hydrocarbon optionally substituted in any position or a cyclic compound containing 1 to 3 nitrogen, oxygen, or sulfur atoms;

provided that the following cases are excluded in which: R_1 is a hydrogen atom, A_1 is a single bond, A_2 is methylene or ethylene, Q_1 is Q_2 , R_5 is Y_2 -A₃-R₂, Y_2 is an oxygen atom, A_3 is methylene, and R_2 is phenyl;

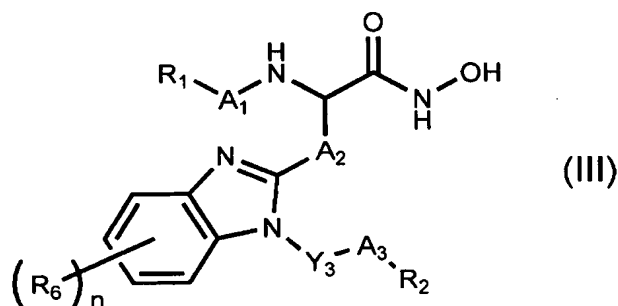
R_1 is a hydrogen atom, A_1 is a single bond, A_2 is methylene, Q_1 is Y_1 -A₃-R₂, Y_1 is S, and A_3 is ethylene;

R_1 is a hydrogen atom, A_1 is a single bond, A_2 is ethylene, Q_1 is Y_1 -A₃-R₂, Y_1 is S, and A_3 is a single bond, and R_2 is ethyl; and

A₂ is methylene, Q₁ is -Y₁-A₃-R₂, Y₁ is NR₃CO, A₃ is ethylene, and R₂ is phenyl.

2. A compound of the following formula (III) or a pharmaceutically acceptable salt thereof:

[Formula 14]



wherein R₁ represents a hydrogen atom, an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group;

A₁ and A₂ each independently represent a single bond or an alkylene group having 1 to 6 carbon atoms;

R₆s are each independently optionally substituted at any carbon atom on the ring, each independently represent a halogen atom, an alkyl group, a nitro group, a cyano group, -OR₇, -COOR₇, or -CONR₇R₈, and optionally form a ring;

R₇ and R₈ each independently represent an alkyl group, an alkenyl group, an aryl group, a heteroaryl group, a saturated heterocyclic group, or a group selected from the group consisting of an aryl or heteroaryl group and an alkylene group having 1 to 3 carbon atoms;

n represents an integer of 0 to 4;

Y₃ represents a single bond, -CO- or -SO₂-;

A₃ represents a single bond or an alkylene group having 1 to 6 carbon atoms; and

R₂ represents an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group.

3. The compound of the formula (III) or a pharmaceutically acceptable salt thereof according to claim 2, wherein A₂ represents methylene or ethylene; R₁ represents a hydrogen atom, an alkyl group, or an aryl group; A₁ represents a single bond, methylene,

or ethylene; Y₃ represents a single bond; and R₆ represents a hydrogen atom, a halogen atom, or an alkyl group.

4. The compound of the formula (III) or a pharmaceutically acceptable salt thereof according to claim 3, wherein A₂ represents ethylene; A₁ represents a single bond; and R₁ represents a hydrogen atom.

5. The compound of the formula (III) or a pharmaceutically acceptable salt thereof according to claim 3, wherein R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a propyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is ethylene, and R₂ is a phenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-nitrophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a pentyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 2-methoxyphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a pyridin-2-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a butyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is an octyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a cyclohexyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a 2,2-dimethylpropyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is an isobutyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-fluorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a t-butyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a cyclohexyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a tetrahydropyran-4-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a 1-methylpiperidin-4-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a 2-methylbutyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a hexyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a heptyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is 2-methylpropylen-2-yl, and R₂ is a 4-t-butylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a naphthalen-1-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 5-chlorothiophen-2-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R_{6s} are methyl groups present at the 5-and 6-positions, Y₃ and A₃ are each a single bond, and R₂ is a cyclohexyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R_{6s} are methyl groups present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-t-butylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R_{6s} are methyl groups present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-fluorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R_{6s} are methyl groups present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-methoxybenzyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a methyl group;

R₁ is a propyl group, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a propyl group;

R₁ is a cyclohexyl group, A₁ is methylene, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a methyl group;

R₁ is a propyl group, A₁ is methylene, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a methyl group;

R₁ is an octyl group, A₁ is methylene, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a methyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a propyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are chlorine atoms present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a propyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are chlorine atoms present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a pentyl group;

R₁ is a cyclohexyl group, A₁ is methylene, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a propyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 2,3,5,6-tetrafluoro-4-methoxyphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a cyclohexyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a 3,4-difluorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a phenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ and A₃ are each a single bond, and R₂ is a phenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ and A₃ are each a single bond, and R₂ is a 4-methylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ and A₃ are each a single bond, and R₂ is a 4-methoxyphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ and A₃ are each a single bond, and R₂ is a 4-fluorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a 4-methylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a 3-fluorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ and A₃ are each a single bond, and R₂ is a 3-nitrophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-trifluoromethylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are chlorine atoms present at the 5-and 6-positions, Y₃ and A₃ are each a single bond, and R₂ is a phenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are chlorine atoms present at the 5-and 6-positions, Y₃ is a single bond, A₃ is methylene, and R₂ is a phenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a pentyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a 4-methylphenyl group;

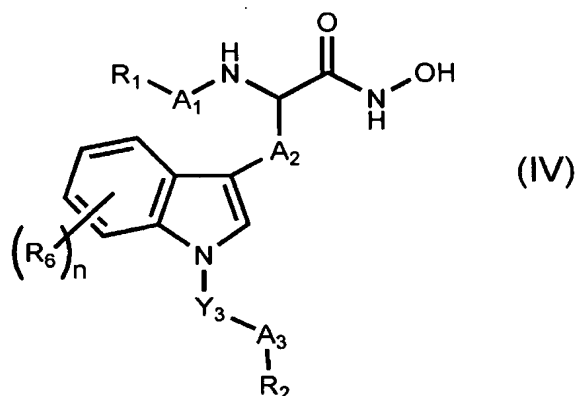
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-t-butylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, n is 2, R₆s are methyl groups present at the 5-and 6-positions, Y₃ and A₃ are each a single bond, and R₂ is a pentyl group; or

R_1 is a hydrogen atom, A_1 is a single bond, A_2 is ethylene, n is 2, R_6 s are methyl groups present at the 5- and 6-positions, Y_3 and A_3 are each a single bond, and R_2 is a 2,2-dimethylpropyl group.

6. A compound of the following formula (IV) or a pharmaceutically acceptable salt thereof:

[Formula 15]



wherein R_1 represents a hydrogen atom, an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group;

A_1 and A_2 each independently represent a single bond or an alkylene group having 1 to 6 carbon atoms;

R_6 s are each independently optionally substituted at any carbon atom on the ring, each independently represent a halogen atom, an alkyl group, a nitro group, a cyano group, $-OR_7$, $-COOR_7$, or $-CONR_7R_8$, and optionally form a ring;

R_7 and R_8 each independently represent an alkyl group, an alkenyl group, an aryl group, a heteroaryl group, a saturated heterocyclic group, or a group selected from the group consisting of an aryl or heteroaryl group and an alkylene group having 1 to 3 carbon atoms;

n represents an integer of 0 to 4; Y_3 represents a single bond $-CO-$ or $-SO_2-$; and

A_3 represents a single bond or an alkylene group having 1 to 6 carbon atoms; and R_2 represents an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group.

7. The compound of the formula (IV) or a pharmaceutically acceptable salt thereof according to claim 6, wherein R₆ represents a hydrogen atom.
8. The compound of the formula (IV) or a pharmaceutically acceptable salt thereof according to claim 7, wherein R₁ represents a hydrogen atom and A₁ represents a single bond.
9. The compound of the formula (IV) or a pharmaceutically acceptable salt thereof according to claim 8, wherein Y₃ represents a single bond.
10. The compound of the formula (IV) or a pharmaceutically acceptable salt thereof according to claim 6, wherein R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 2,4-difluorophenyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-trifluorophenyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-nitrophenyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is ethylene, and R₂ is a phenyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 2,3,4,5,6-pentafluorophenyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a pentyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-t-butylphenyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 4-cyanophenyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ is a single bond, A₃ is methylene, and R₂ is a 3,4-difluorophenyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a methyl group;
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is an ethyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a propyl group;

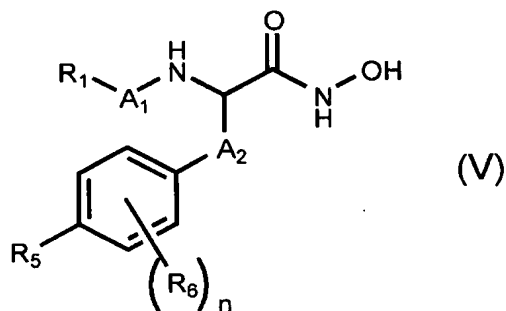
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a butyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a hexyl group; or

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, Y₃ and A₃ are each a single bond, and R₂ is a 3-methylbutyl group.

11. A compound of the following formula (V) or a pharmaceutically acceptable salt thereof:

[Formula 16]



wherein R₁ represents a hydrogen atom, an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group; A₁ and A₂ each independently represent a single bond or an alkylene group having 1 to 6 carbon atoms; R₅ represents a nitro group, a cyano group, or -Y₂-A₃-R₂; n represents an integer of 0 to 4; Y₂ represents a single bond, -O-, -S-, -NR₃-, -CONR₃-, -NR₃CO-, -NR₃COO-, -NR₃CONR₄-, -NR₃SO₂-, or -NR₃SO₂NR₄-;

R₆s are each independently optionally substituted at any carbon atom on the ring, each independently represent a halogen atom, an alkyl group, a nitro group, a cyano group, -OR₇, -COOR₇, or -CONR₇R₈, and optionally form a ring; and

R₇ and R₈ each independently represent an alkyl group, an alkenyl group, an aryl group, a heteroaryl group, a saturated heterocyclic group, or a group selected from the group consisting of an aryl or heteroaryl group and an alkylene group having 1 to 3 carbon atoms.

12. The compound of the formula (V) or a pharmaceutically acceptable salt thereof according to claim 11, wherein A₂ represents methylene and R₆ represents a hydrogen atom.

13. The compound of the formula (V) or a pharmaceutically acceptable salt thereof according to claim 12, wherein R₁ represents a hydrogen atom, A₁ represents a single bond, R₅ represents a nitro group, -NR₉R₁₀, or -OR₉, R₉ and R₁₀ each represent -Y₄-R₁₁, Y₄ represents a single bond, -CO-, -COO-, -CONR₁₂-, or SO₂-, and R₁₁ and R₁₂ each independently represent an alkyl group having 1 to 10 carbon atoms, an aryl group, a heteroaryl group, a saturated heterocyclic group, or a group selected from the group consisting of an aryl or heteroaryl group and an alkylene group having 1 to 3 carbon atoms, provided that the following cases are excluded in which: R₅ represents -OR₉, R₉ represents -Y₄R₁₁, and Y₄ represents 0; or R₁₁ represents a benzyl group.

14. The compound of the formula (V) or a pharmaceutically acceptable salt thereof according to claim 12, wherein R₅ is a nitro group.

15. The compound of the formula (V) or a pharmaceutically acceptable salt thereof according to claim 11, wherein R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃CO-, R₃ is a hydrogen atom, A₃ is a single bond, and R₂ is a methyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃CO-, R₃ is a hydrogen atom, A₃ is a single bond, and R₂ is a 4-methylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃CO-, R₃ is a hydrogen atom, A₃ is a single bond, and R₂ is a butyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃CO-, R₃ is a hydrogen atom, A₃ is a single bond, and R₂ is a t-butyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃CO-, R₃ is a hydrogen atom, A₃ is methylene, and R₂ is a 4-fluorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃SO₂-, R₃ is a hydrogen atom, A₃ is a single bond, and R₂ is a 4-methylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃CONR₄-, R₃ and R₄ are each a hydrogen atom, A₃ is a single bond, and R₂ is a 4-trifluoromethylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃COO-, R₃ is a hydrogen atom, A₃ is a single bond, and R₂ is a methyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃CONR₄-, R₃ is a hydrogen atom, A₃ is a single bond, and R₂ and R₄ are each a methyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃-, A₃ is a single bond, and R₂ and R₃ are each a propyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, R₅ is -Y₂-A₃-R₂, Y₂ is -NR₃-, A₃ is methylene, R₂ is a hydrogen atom, and R₃ is a 4-methylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is a nitro group;

R₁ is a phenyl group, A₁ is methylene, A₂ is methylene, n is 0, and R₅ is a nitro group;

R₁ is a pyridin-2-yl group, A₁ is methylene, A₂ is methylene, n is 0, and R₅ is a nitro group;

R₁ is a propyl group, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is a nitro group;

R₁ is a cyclohexyl group, A₁ is methylene, A₂ is methylene, n is 0, and R₅ is a nitro group;

R₁ is a 2-propyl group, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is a nitro group;

R₁ is a cyclohexyl group, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is a nitro group;

R₁ is a 1-methylpiperazin-4-yl group, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is a nitro group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is ethylene, and R₂ is a 4-phenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is a single bond, and R₂ is a propyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is ethylene, and R₅ is a morpholin-4-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is a single bond, and R₂ is a butyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is a single bond, and R₂ is a pentyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 4-fluorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a naphthalen-2-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 2-chlorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 4-trifluoromethylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 2,3,4,5,6-pentafluorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 4-*t*-butylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 2-biphenyl group;

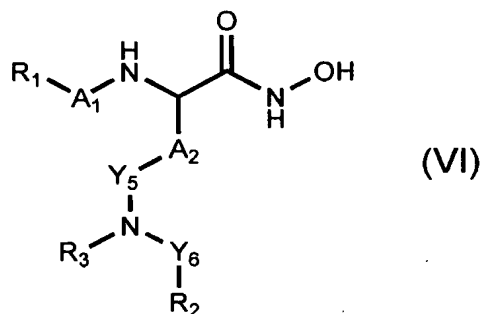
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 4-nitrophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 2,4-difluorophenyl group; or

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is methylene, n is 0, and R₅ is -Y₂-A₃-R₂, Y₂ is -O-, A₃ is methylene, and R₂ is a 4-cyanophenyl group.

16. A compound of the following formula (VI) or a pharmaceutically acceptable salt thereof:

[Formula 17]



wherein R_1 represents a hydrogen atom, an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group;

A_1 and A_2 each independently represent a single bond or an alkylene group having 1 to 6 carbon atoms;

R_2 represents an alkyl group having 1 to 10 carbon atoms, an alkenyl group having 2 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group;

Y_5 represents a single bond or a carbonyl group; Y_6 represents a single bond, $-CO-$, $-COO-$, $-CONR_4-$, or $-SO_2-$; and

R_3 and R_4 each represent a hydrogen atom, an alkyl group, an alkenyl group, an aryl group, a heteroaryl group, a saturated heterocyclic group, or a group selected from the group consisting of an aryl or heteroaryl group and an alkylene group having 1 to 3 carbon atoms.

17. The compound of the formula (VI) or a pharmaceutically acceptable salt thereof according to claim 16, wherein A_2 represents ethylene or propylene.

18. The compound of the formula (VI) or a pharmaceutically acceptable salt thereof according to claim 17, wherein R_1 represents a hydrogen atom and A_1 represents a single bond.

19. The compound of the formula (VI) or a pharmaceutically acceptable salt thereof according to claim 16, wherein R_1 is a hydrogen atom, A_1 is a single bond, A_2 is ethylene, Y_5 is a carbonyl group, Y_6 is a single bond, R_3 is a hydrogen atom, and R_2 is a naphthalen-1-ylmethyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is a 4-t-butylphenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is a 4-fluorobenzyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is a 4-t-butylbenzyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is a cyclohexyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is a 2,2-diphenylethyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is a pyridin-2-ylmethyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a methyl group, and R₂ is a benzyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is an ethyl group, and R₂ is an ethyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, and R₂ and R₃ are each a pentylene group and form a ring;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is an adamantan-1-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is ethylene, Y₅ is a carbonyl group, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is a benzyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a methyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a phenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a 4-nitrophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a 4-nitrobenzyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a naphthalen-1-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a naphthalen-2-yl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a cyclohexylmethyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a 4-chlorophenyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a benzhydryl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a 2-phenylbenzyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a 3,5-di-t-butylbenzyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is -CO-, R₃ is a hydrogen atom, and R₂ is a t-butyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is a single bond, R₃ is a propyl group, and R₂ is a propyl group;

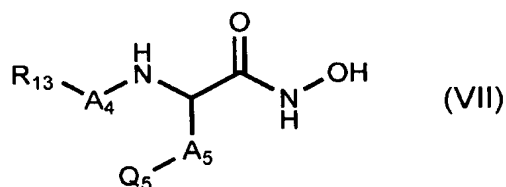
R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is a single bond, R₃ is a pentyl group, and R₂ is a pentyl group;

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is a single bond, R₃ is a hydrogen atom, and R₂ is a cyclohexyl group; or

R₁ is a hydrogen atom, A₁ is a single bond, A₂ is propylene, Y₅ is a single bond, Y₆ is a single bond, R₃ is a 4-methylbenzyl group, and R₂ is a 4-methylbenzyl group.

20. An AGE generation inhibitor comprising a compound of the following formula (VII) or a pharmaceutically acceptable salt thereof:

[Formula 18]



wherein R₁₃ represents an alkyl group having 1 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group;

A₄ and A₅ each independently represent a single bond or an alkylene group having 1 to 6 carbon atoms;

Q₅ represents -Y₇-A₆-R₁₄, an aromatic ring compound group Q₆, a heteroaromatic ring compound group Q₇, or a saturated cyclic compound group Q₈;

Y₇ represents a single bond, -O-, -S-, -NR₁₅-, -CONR₁₅-, -NR₁₅CO-, -NR₁₅COO-, -NR₁₅CONR₁₆-, -NR₁₅SO₂-, or -NR₁₅SO₂NR₁₆-;

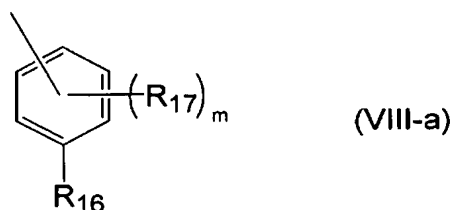
A₆ represents a single bond or an alkylene group having 1 to 6 carbon atoms;

R₁₄ represents a hydrogen atom, an alkyl group having 1 to 10 carbon atoms, an aryl group, a heteroaryl group, or a saturated heterocyclic group;

R₁₅ and R₁₆ each represent an alkyl group having 1 to 6 carbon atoms, an aryl group, a heteroaryl group, a saturated heterocyclic group, or a group selected from the group consisting of an aryl or heteroaryl group and an alkylene group having 1 to 3 carbon atoms; R₁₄ and R₁₅ optionally bond together to form a ring;

Q₆ is a group of the following formula (VIII-a):

[Formula 19]



wherein R₁₆ represents a hydrogen atom, a halogen atom, a nitro group, a cyano group, or -Y₇-A₆-R₁₄;

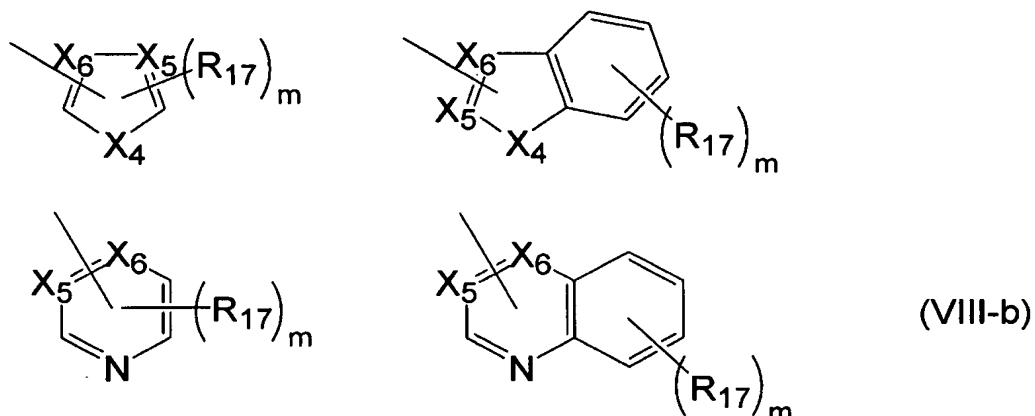
m represents an integer of 0 to 4;

R₁₇ may be each independently substituted at any atom on the ring, each independently represents a halogen atom, an alkyl group, a nitro group, a cyano group, -OR₁₈, -COOR₁₈, or -CONR₁₈R₁₉, and optionally form a ring; and

R₁₈ and R₁₉ each represent an alkyl group having 1 to 6 carbon atoms, an aryl group, a heteroaryl group, a saturated heterocyclic group;

Q₇ is any of groups of the following formula (VIII-b):

[Formula 20]



wherein X_4 represents -O-, -S-, or -N(-Y₇-A₆-R₁₄)-; X_5 and X_6 each represent N or CH;
and

Q_8 represents a 3- to 10-membered hydrocarbon optionally substituted in any position or a cyclic compound group which can contain 1 to 3 nitrogen, oxygen, and/or sulfur atoms.

21. A medicinal composition comprising the AGE generation inhibitor according to claim 20.
22. A food additive composition comprising the AGE generation inhibitor according to claim 20.
23. A cosmetic additive composition comprising the AGE generation inhibitor according to claim 20.
24. A cosmetic comprising the AGE generation inhibitor according to claim 20.